



MAHARAJA AGRASEN COLLEGE
University of Delhi
VASUNDHARA ENCLAVE, DELHI-110096



Curriculum Vitae of Dr. Maneesha

First Name	Dr. Maneesha	Last Name			
Designation	Professor	Department	Electronics		
Date of Birth	5th Dec 1966	Date of Joining	24th Dec 2002		
Residential Address	11-B, Shivam Enclave, Delhi-110032				
Contact No	9868248263	Email Id	maneesha@mac.du.ac.in		
Education					
Subject	Institution	Year	Details		
M.Sc. (Physics)	University of Delhi	1990	Specialization in Electronics		
Ph.D (Electronics)	University of Delhi South Campus	1996	Analytical modelling and characterization of non- uniformly doped short channel MOSFETs		
Career Profile					
Organization/ Institution	Post Held	Adhoc/Temp/ Permanent	From	To	Total Experience
SGTB Khalsa, University of Delhi	Lecturer	Adhoc	January 1996	April 1996	3 months 12 days
Maharaja Agrasen College, University of Delhi	Lecturer	Adhoc	July 1996	December 2002	5 years 4 months

Maharaja Agrasen College, University of Delhi	Lecturer	Permanent	December 2002	Till Date	20 years

Teaching Experience (Subjects/Courses Taught)

Undergraduate Courses Taught	Papers Taught
B.Sc. (H) Electronics B.Tech. Electronics	<ol style="list-style-type: none"> 1. Digital System Design and VHDL 2. Electricity and Magnetism 3. Electrical Technology and Electrical Machines 4. Thermal Physics 5. Network analysis and synthesis 6. Mathematical Physics-I 7. Numerical Analysis 8. Programming with LabView
PhD Coursework	ES-6: Robotics and Artificial Intelligence

Details of Published Research Papers, Books, Monographs, Reviews, Chapter in Books, Translations and Creative Positions held

Year of Publications	Title	ISBN/ ISSN	Publisher	Co-Authors
Research Papers				
1993	Substrate bias dependent threshold voltage model of short channel MOSFETs	0038-1101	Solid State Electronics, Vol 36, pp 661-664	Subhasis Haldar, Manoj Khanna, R.S. Gupta
1994	Threshold voltage shift in depletion mode IGFET	0038-1101	Solid State Electronics, Vol 37, pp 373-379	Subhasis Haldar, Manoj Khanna, R.S. Gupta
1994	A device model for ion implanted MESFET with half Pearson and half Gaussian distribution under post – anneal conditions.	0018-9383	IEEE Transactions on Electron devices, Vol 41, pp 1674-1677	Subhasis Haldar, Manoj Khanna, R.S. Gupta
1995	Analytical theory of two – dimensional charge sheet model for short channel MOSFETs under non	0038-1101	Solid State Electronics, Vol 38, pp 197-202	Subhasis Haldar, Manoj Khanna, R.S. Gupta

	linear charge control.”			
1996	An empirical fringing capacitance dependent threshold voltage model for non – uniformly doped submicron MOSFETs	0038-1101	Solid State Electronics, Vol 39, pp 1687-1691	Subhasis Haldar, Manoj Khanna, R.S. Gupta
1997	An analytical model for anomalous threshold voltage behavior of short channel MOSFETs	0038-1101	Solid State Electronics, Vol 41, pp 1386-1388	Subhasis Haldar, Manoj Khanna, R.S. Gupta
2014	Redefining Curriculum to Inspire Learning	978-81-7273-958-4	Proceedings of National Conference on “Striving & Thriving Towards Diffusion of Student-driven Research in Science and Technology for Inspired Learning Authors Press, New Delhi	Amit Pundir, Praveen Kant Pandey
2017	Implementing Noise reduction in Speech Processing using Spectral Subtraction	978-81-933475-3-9	2nd National Conference on Recent Developments in Electronics (NCRDE 2017), 16-18 February 2017, jointly Organized by IEEE EDS Delhi Chapter and Department of Electronic Science, University of Delhi South Campus, New Delhi, 2017	Arsh Hashmi, Sharad Srivastava
2017	Designing and Developing Energy Information System for Academic Institutes	ISSN 1886-949X	Journal of Engineering and Applied Sciences. Volume12.7, pp 7990-7994, 2017	Praveen Kant Pandey
2018	An Intelligent Terrain Profiling Embedded System for Underwater Applications	ISBN: 978-1-5386-0886-9, DOI: 10.1109/CIACT.2018.8480124	Proceedings of CICT 2018, IEEE Xplore Digital Library, 2018	Praveen Kant Pandey

2018	A Smart Healthcare Monitoring System Using Smartphone Interface	ISBN: 978-1-5386-3476-9/18/\$31.00 ©2018 IEEE	Proceedings of Fourth International Conference on Devices, Circuits and Systems (ICDCS'18)	Sachin Kumar, Praveen Kant Pandey
2020	Intelligent Energy Information and Management System for Academic Institutes	2352-2534	Advances in Solar Power Generation and Energy Harvesting, Springer Proceedings in Energy	Praveen Kant Pandey
2021	An Improved Terrain Profiling System with High-Precision Range Measurement Method for Underwater Surveyor Robot	2194-5357	Advances in Intelligent Systems and Computing , Springer	Praveen Kant Pandey
Books/ Chapter in Book				
2010	Textbook: Laboratory Manual in Physics for Higher Secondary Stage Part I	97893500070628	National Council of Education Research and Training	-
2010	Textbook: Laboratory Manual in Physics for Higher Secondary Stage Part II	97893500070659	National Council of Education Research and Training	
2014	Editor , Proceedings of National Conference on "Striving & Thriving Towards Diffusion of Student-driven Research in Science and Technology for Inspired Learning	978-81-7273-958-4	Authors Press, New Delhi	Amit Pundir, Praveen Kant Pandey
2015	Editor , Proceedings of National Conference on Student-driven Research for Inspired Learning	2321 0613	International Journal for Scientific Research and Development	Praveen Kant Pandey
2019	Editor, Knowledge Organisations: Aspirations and Experiences	978- 81-940528-0-7	Maharaja Agrasen College	Praveen Kant Pandey, Gitanjali Chawla
2019	Editor, Quality Research for Inspired Learning	978-81-940528-1-4	Maharaja Agrasen College	Praveen Kant Pandey, T N Ojha
2019	Chapter in Book: Autonomous Landmine Detection Robot: Design And Applications in book 'Knowledge Organisations: Aspirations and Experiences'	978- 81-940528-0-7	Maharaja Agrasen College Editors: Maneesha, Praveen Kant Pandey, Gitanjali Chawla	Praveen Kant Pandey

2020	Chapter in Book: Intelligent Energy Information and Management System for Academic Institutes in 'Advances in Solar Power Generation and Energy Harvesting , Springer Proceedings in Energy'	2352-2534	Springer, Singapore Editors: Jain, Vinod Kumar, Kumar, Vikram, Verma, Abhishek	Praveen Kant Pandey

Papers presented in Conferences/Seminars/Workshops

State/National International	Title	Organization	Period
National	New analytical expression for threshold voltage of short channel IGFET	National seminar / workshop on system design and simulation, Dayal Bagh Agra	1992
National	Two dimensional charge sheet model of short channel MOSFET under non – linear charge control	National seminar / workshop on system design and simulation, Dayal Bagh Agra	1992
National	Analytical modeling of an ion implanted MESFET	National seminar / workshop on system design and simulation, Dayal Bagh Agra	1992
International	Threshold Voltage shift in depletion mode IGFET	Third international conference on solid state and integrated circuit technology, Beijing China	1992
National	Capacitance calculation for non – linear short channel MOSFET	National symposium on advances in Microwaves, New Delhi	1993
National	New Analytical Model for Non-Uniformly Doped Short Channel MOSFET from 2D Potential Distribution	National Symposium on Physics of Solid - State Devices, JNV University, Jodhpur	1996
National	Stimulating Innovation and Creativity: A case study of Maharaja Agrasen College	Academic Congress, University of Delhi	2012
National	Integrating Generic and Technical Competencies Through the	National Conference on “Striving & Thriving Towards Diffusion of Student-driven	2014

	Learning Journey	Research in Science and Technology for Inspired Learning” held at Maharaja Agrasen College, University of Delhi	
National	Quality in Higher Education: A NAAC initiative	National Seminar on Practising Quality Culture in Institutions of Higher Education, Maharaja Agrasen College	2016
National	Implementing Noise reduction in Speech Processing using Spectral Subtraction	2nd National Conference on Recent Developments in Electronics (NCRDE 2017), Organized by IEEE EDS Delhi Chapter and Department of Electronic Science, University of Delhi South Campus	2017
International	Designing and Developing Energy Information System for Academic Institutes	International Conference on Innovative Research in Engineering and Science , AIT Bangkok.	2017
International	An Intelligent Terrain Profiling Embedded System for Underwater Applications	International Conference on Computational intelligence and communication technology (CICT-2018)	2018
National	A Dual-Mode Robotic System for Landmine Detection	National Conference on Fostering Quality Research in Higher Education, Maharaja Agrasen College	2018
National	Augmenting pedagogical practices through Innovative Technological Interventions	National Conference on Fostering Quality Research in Higher Education, Maharaja Agrasen College	2018
International	An Intelligent Terrain Profiling Embedded System for Underwater Applications	International Conference on "Computational Intelligence and Communication Technology" (CICT 2018)	2018

National	A smart healthcare monitoring system with smartphone interface	National Conference on Fostering Quality Research in Higher Education, Maharaja Agrasen College	2018
International	An Improved Kalman filter based High-Precision Range Measurement Method for Underwater Surveyor Robot	4th International Conference on Innovative Computing And Communication, organized by Shaheed Sukhdev College of Business Studies, University of Delhi, New Delhi in association with National Institute Of Technology Patna & University Of Valladolid Spain	2020
International	'A New Approach to Collision-Free Path Planning for Robot Navigation using Safety Envelopes'	2nd International Conference on Data Science and Applications (ICDSA 2021)	2021

Participation in Conferences/Seminars/Workshops

State/National International	Title	Organization	Period
International	Vlth International workshop on Physics of Semiconductor Devices	University of Delhi South Campus	1991
National	National seminar / workshop on system design and simulation	Dayal Bagh, Agra	1992
National	National symposium on advances in Microwaves	University of Delhi South Campus	1993
National	National symposium on recent advances in Microwaves and Lightwaves	University of Delhi South Campus	1996
International	Asia Pacific Microwave conference - 1996, New Delhi	University of Delhi South Campus	1996
International	Asia Pacific Microwave conference - 1996, New Delhi	University of Delhi South Campus	2004
National	Workshop on Development of Laboratory Manual in Physics for	Department of Education in Science and Mathematics, NCERT	2004

	Higher Secondary Stage		
National	Short Course on Spice Models for Advanced VLSI Circuit Simulation (SMAVCS)	Department of Electronics, University of Delhi South Campus, New Delhi	2005
National	Workshop on Development of Test Items in Physics at Higher Secondary Stage	Department of Education in Science and Mathematics, NCERT	2005
National	Workshop on e- Learning & Content Design	Institute of Life Long Learning, University of Delhi	2007
National	Workshop on Development of Laboratory Manual in Physics for Higher Secondary Stage	Department of Education in Science and Mathematics, NCERT	2008
National	Workshop on Development of Training Package in Physics at Higher Secondary Stage	NCERT	2013
National	Professor Summit on Embedded System Design using Atmel Atmega XPLD mini 168PB and ARM based SAM D21	Atmel India University Program	2016

Refresher/ Orientation/ Faculty Development Programs

State/National International	Title	Organization	Period
National	4-week Orientation Course	Jamia Millia Islamia, New Delhi	2004
National	3-week Refresher course in Physics and Electronics	CPDHE, University of Delhi	2008
National	3-week Refresher course in Physics and Electronics	CPDHE, University of Delhi	2008
National	Faculty development workshop on "Digital Circuit Design using VHDL	Zakir Hussain College, University of Delhi	2016
National	Engineering Education and Research Seminar on LabVIEW	National Instruments and Ajay Kumar Garg Engineering College, Ghaziabad	2017

Public Service/University Service/Consulting Activity

- Coordinator, IQAC, Maharaja Agrasen College
- Nodal Officer, MAC- NIRF
- Presiding Officer, Internal Complaints Committee 2018-22
- Convener, IQAC sub-committee for Screening of Promotion (APAR & PBAS) forms
- Co-Convener, MAC- NAAC Steering Committee 20-15-16
- Teacher In-charge, Dept. of Electronics 2005 - 2007; 2015-2017
- Secretary, Staff Council 2012-14
- Convener: Library Committee, Hostel Committee, Student Aid Fund committee, Committee for new courses
- Member, Admission committee Member; Sports committee, Library committee, Academic supervisory Committee, Student Advisory Committee, Discipline committee, Examination committee, Magazine committee, Extra Curricular Committee, Alumni committee etc.
- Member, Syllabus Revision Committee, Department of Electronic Science, University of Delhi
- Member, MAC eLearning Team
- Member, Examination Committee
- Member, Counselling Committee for Covid -19
- Member, Mentoring & Counselling Committee

Professional Societies Memberships

Member, IEEE, USA

Member, Society of VLSI and Microelectronics

Projects /Collaborations

Title of the Project	Major/Minor	Funding Agency	Status	Level (International, National, State, University, College)
Measuring Environmental Footprint of the University of Delhi and transforming it into a Zero Impact (on Environment) University	Major	University of Delhi	Complete	University
Redefining Curriculum:-Integrating ICT for Innovation Eco-system	Major	University of Delhi	Complete	University

Fostering Diffusion of Educational Technologies in Undergraduate Learning for the Students, by the Students	Major	University of Delhi	Complete	University
Problem based learning within Simulation Environment	Major	University of Delhi	Complete	University
To Design and Develop Low-cost, Self-learning Heterogeneous Swarm Robotic Ecosystem	Major	University of Delhi	Complete	University

I certify that the information given above is correct and factual to the best of my knowledge.

Date: 25 November 2022